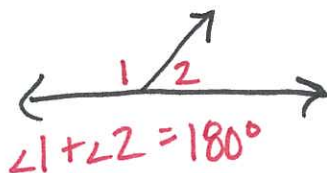


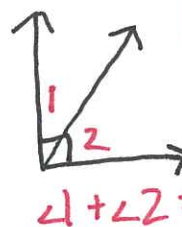
ANGLE RELATIONSHIPS

STUDY GUIDE



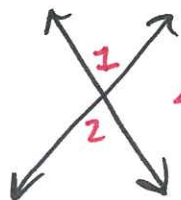
Supplementary

- Sum to 180°
- Linear pairs
- Straight



Complementary

- Sum to 90°
- Right angles

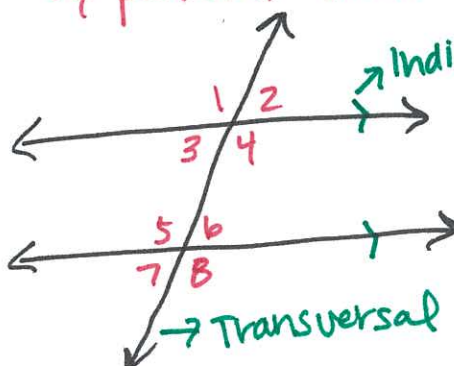


$$\angle 1 \cong \angle 2$$

Vertical

- Congruent (\cong)
- Across from each other

Angle Relationships w/ parallel lines cut by a transversal.



Indicates lines are parallel

Alternate Interior

- Alternate: OPPOSITE sides of transversal
- Interior: INSIDE the parallel lines

EXAMPLES: $\angle 3 \cong \angle 6$; $\angle 5 \cong \angle 4$

CONGRUENT

Alternate Exterior

- Alternate: OPPOSITE sides of transversal
- Exterior: OUTSIDE the parallel lines

EXAMPLES: $\angle 1 \cong \angle 8$; $\angle 2 \cong \angle 7$

SUPPLEMENTARY

Consecutive Interior

- Consecutive: Right next to each other
- Interior: INSIDE the parallel lines

EXAMPLES: $\angle 3 \cong \angle 5$; $\angle 4 \cong \angle 6$

CONGRUENT

Corresponding

- If you slide the angle, it fits exactly in the same spot!

EXAMPLES: $\angle 1 \cong \angle 5$; $\angle 3 \cong \angle 7$
 $\angle 2 \cong \angle 6$; $\angle 4 \cong \angle 8$